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Anderson, et al.

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NaPdfl

Figure 1

Plant-derived Molecules and Genetic  
Sequences Encoding Same and Uses  
Therefor

Anderson, et al.

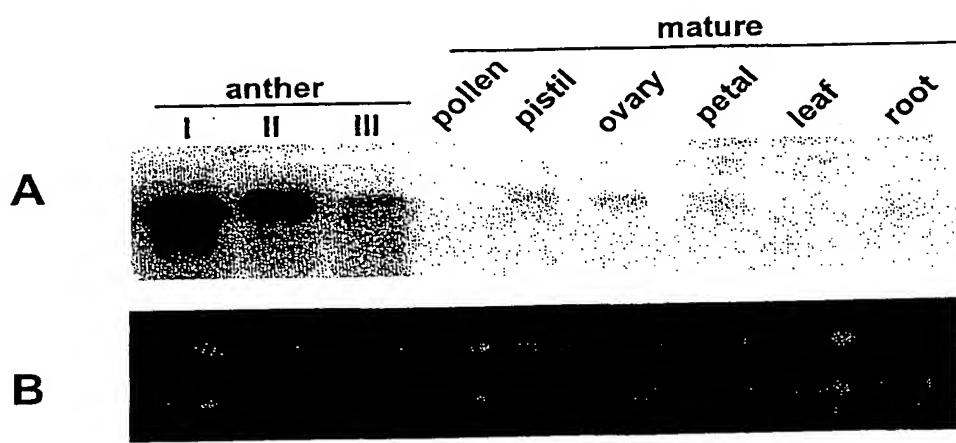
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490            500            510            520            530            540  
TTATTTGTGTACTTTAATGAAAATGACCTTCTATGGTCTTGTTAAAAAAA  
541  
A

**Figure 1 continued**

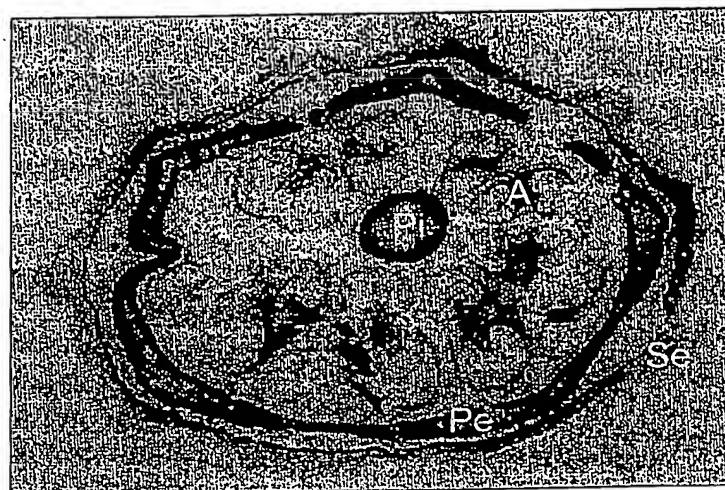
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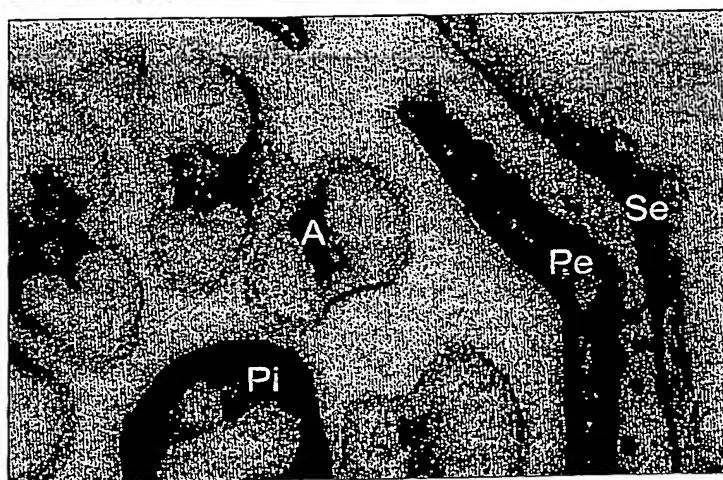
**Figure 2**

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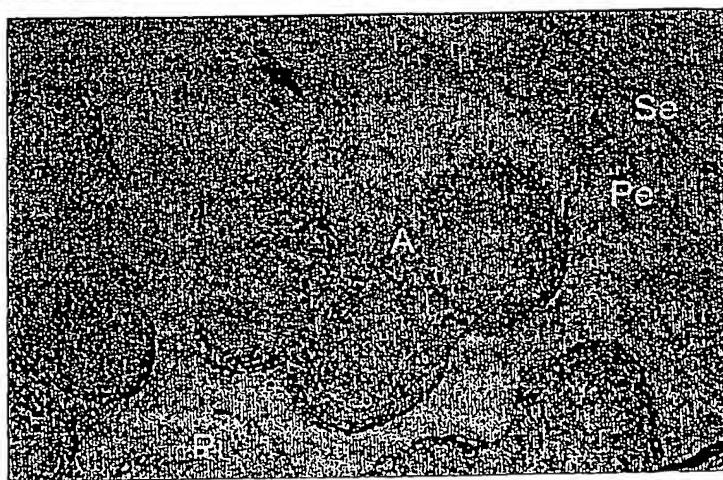
A



B



C



**Figure 3**

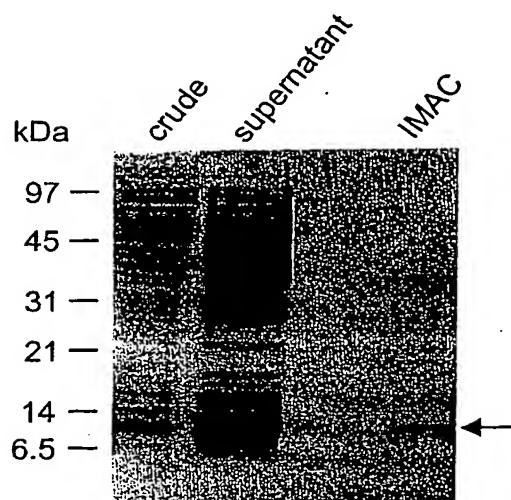
Plant-derived Molecules and Genetic  
Sequences Encoding Same and Uses  
Therefor

Anderson, et al.

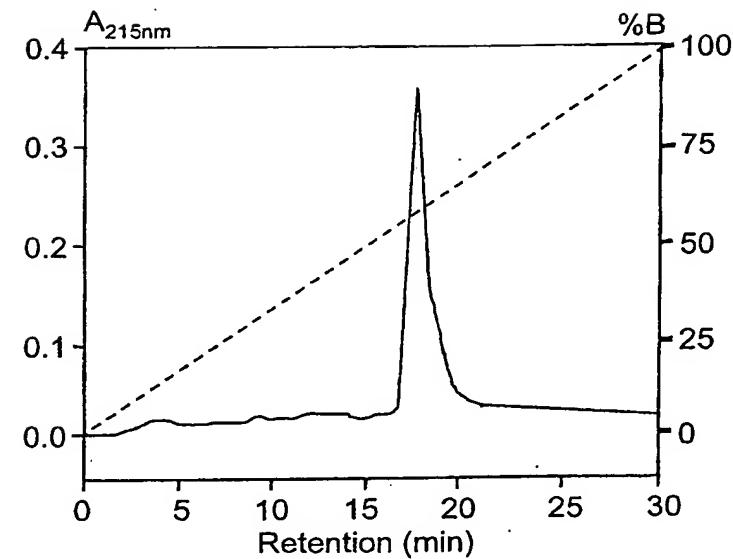
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**A**

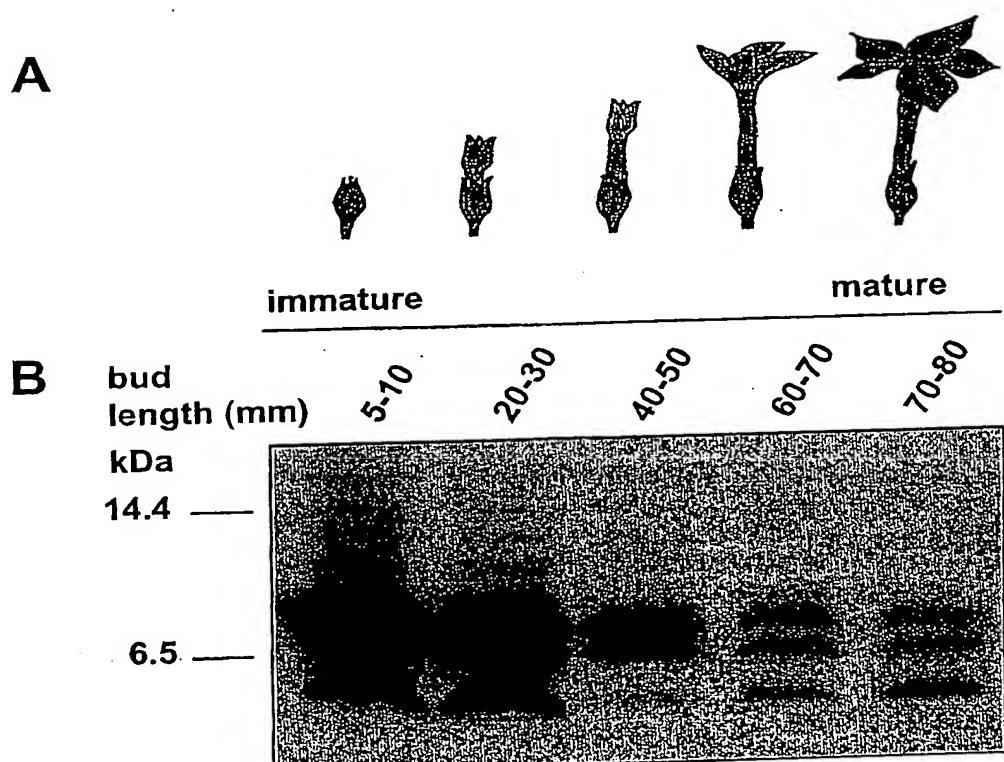


**B**



**Figure 4**

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**Figure 5**

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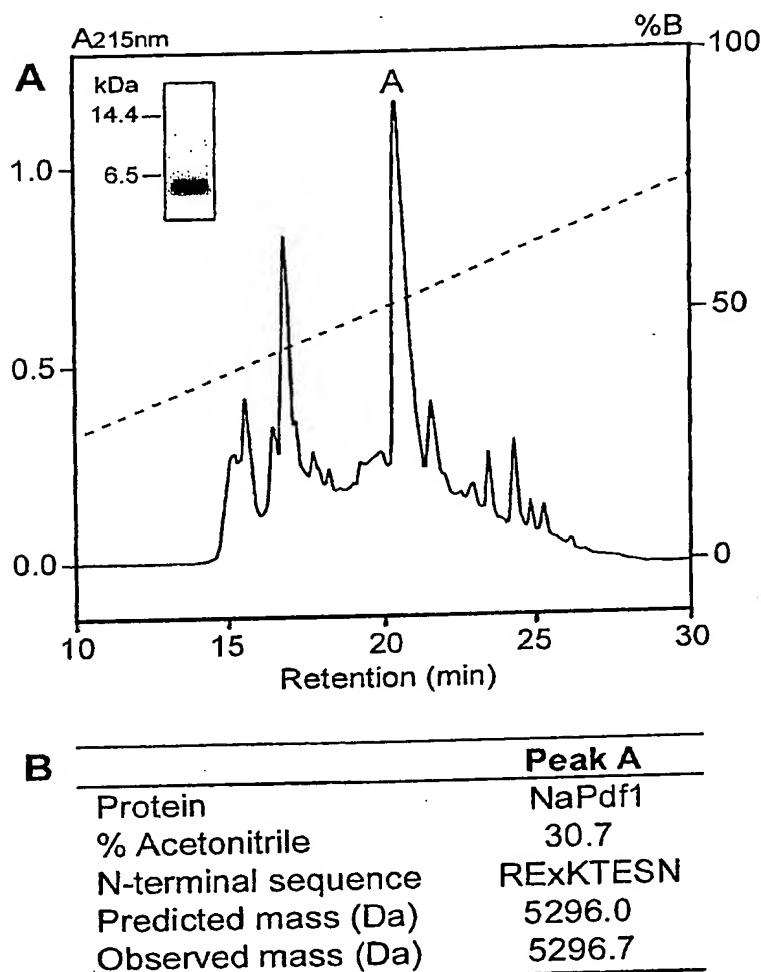


Figure 6

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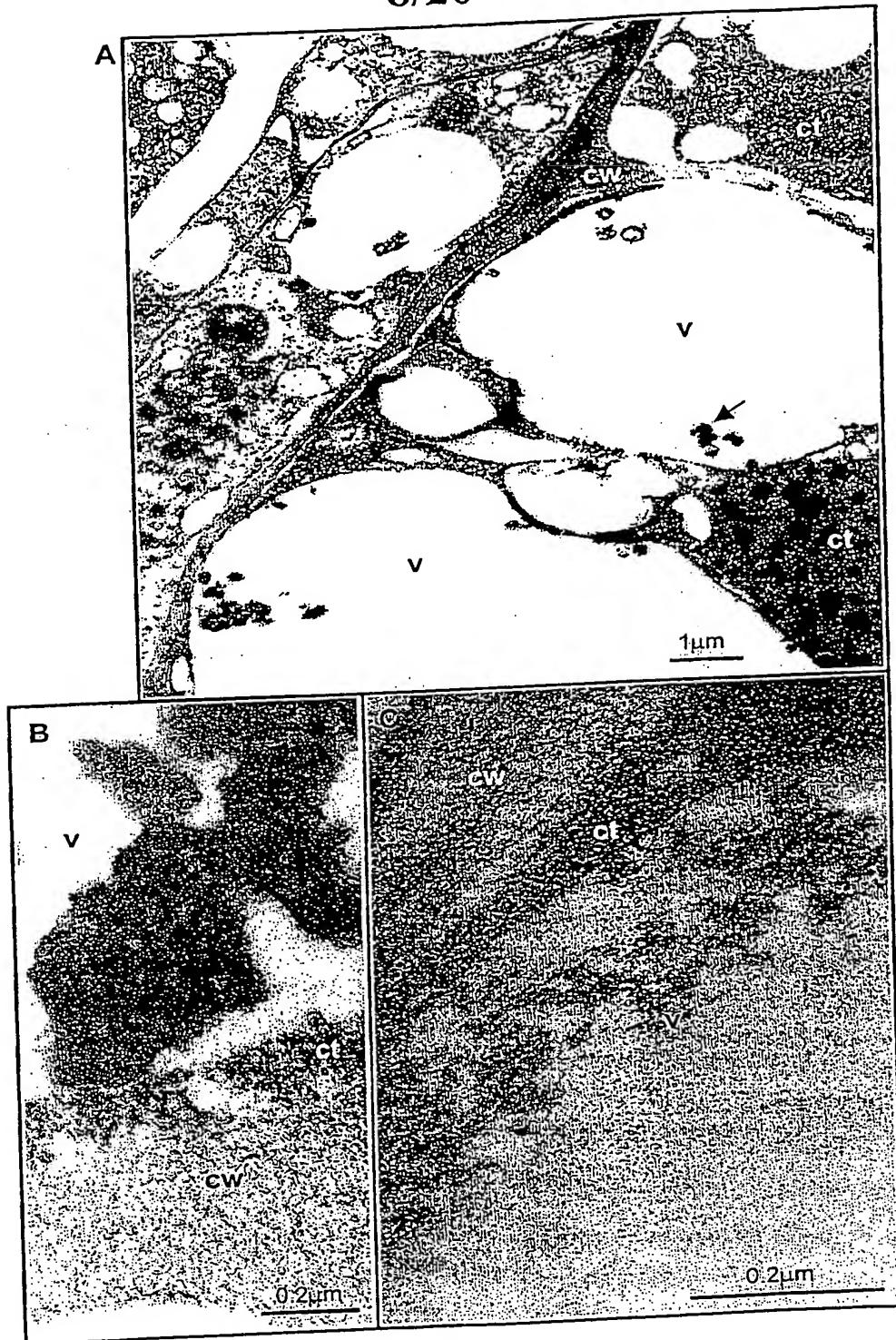


Figure 7

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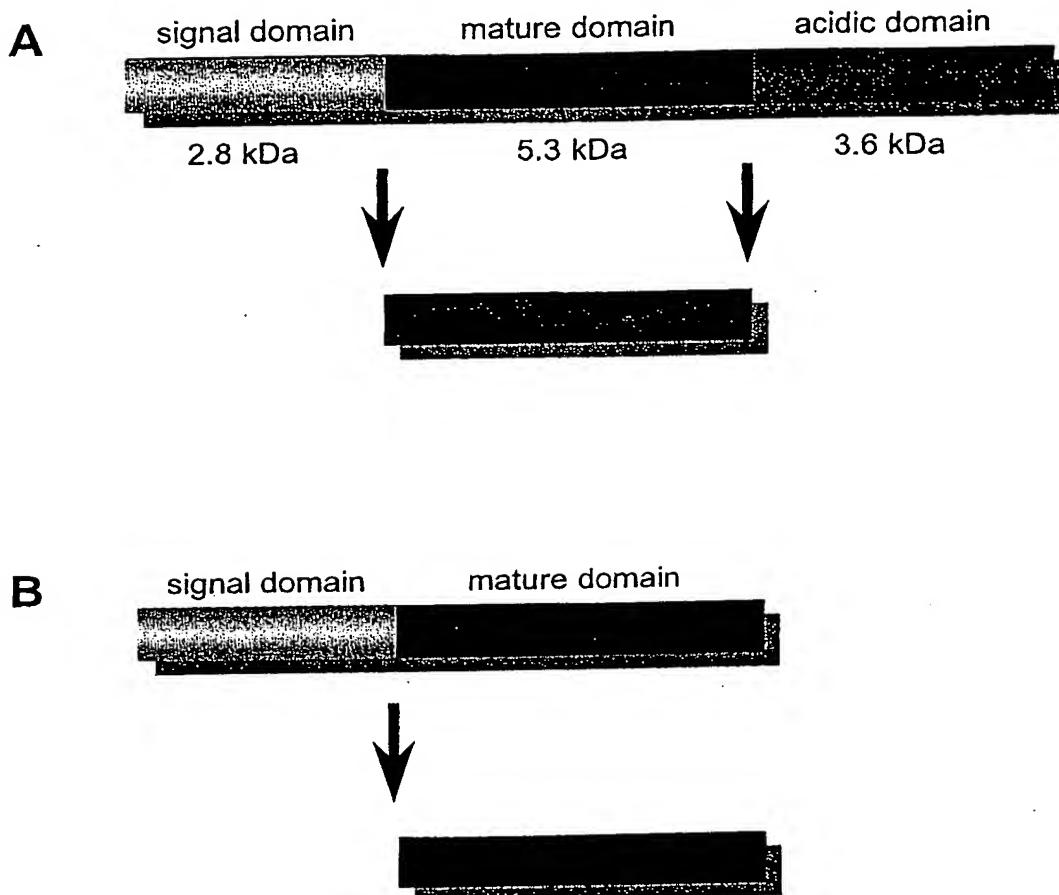


Figure 8

Plant-derived Molecules and Genetic  
Sequences Encoding Same and Uses  
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<b>NaPdf1</b>	(<400>18)	MARSLCFMAPAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP
<b>FST</b>	(<400>20)	MARSLCFMAFAILAMMLFVAYEV-----QA-RECKTESNTFPGICITKPP
<b>TPP3</b>	(<400>21)	MARSIFFMAPLVLAMMLFVTYEV-----EAQQICKAPSQTFPGLCFMDSS
<b>NTS13</b>	(<400>22)	MANSMRFFATVLLIALLVTATEMGPMTIAEA-RTCESQSHRFKGPCSRDSN
<b>PPT</b>	(<400>23)	MGRSIRLFATFLIAMLFLSTEMGPMTSAEA-RTCESQSHRFHGTCVRESN
<b>ATPIIIa</b>	(<400>24)	MKLSMRLISAVLIMFMIFVATGMGPVT-VEA-RTCESQSHRFKGTCVSASN

<b>NaPdf1</b>	CRKACISEKFTDGHC SKILRRCLCTKPCVFDEKMTKTGAEILAEAKTLAAALLEEEIMDN
<b>FST</b>	CRKACISEKFTDGHC SKLLRRCLCTKPCVFDEKMIKTGAETLVEEAKTLAAALLEEEIMDN
<b>TPP3</b>	CRKYCIKEKFTGGHCS K LQRKCLCTKPCVFDKISSEVKA-TLGEEAKTLSEVVLEEEIMME
<b>NTS13</b>	CATVCLTEGFSGGRC PWIPPRCFCTSPC-----
<b>PPT</b>	CASVCQTEGFIGGNCR AFRRRRCFCTRNC-----
<b>ATPIIIa</b>	CANVCHNEG FVGGNCRGFRRRCFCTRHC-----

**Figure 9**

Plant-derived Molecules and Genetic  
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<i>Nicotiana tabacum</i>	NaPdef1	-REC-KTESENTPP-GICITKPPCRKACIS-EKFTDGH-CSK--ILRRCLCTKPC- FST
<i>Lycopersicon esculentum</i>	TPP3	-QIC-KAFSQTPP-GICITKPPCRKACIS-EKFTDGH-CSK--ILRRCLCTKPC- P322
<i>Solanum tuberosum</i>	P322	-RHC-ESLSHRFK-GPCTRDNSCAVCET-ERFSGGN-CHG-F-RRRCFCTKPC- PPT
<i>Petunia inflata</i>	PPT	-RTC-ESQSHRFH-GTCVYRENSCAVCQT-EFGFIGGN-CRA-F-RRRCFCTRNC- SE60
<i>Glycine max</i>	SE60	-RVC-ESQSHGFH-GLCNRDFHNCALVCRNE-G-FSGGRCKG-F-RRRCFCTRIC- Hordeum vulgare
<i>Hordeum vulgare</i>	Y1-H	-RIC-RRSAGFK-GPCVSNKNAQVCMQE-G-WGGGNCDG--PLRRCKMRRC- M2A
<i>Sinapis alba</i>	M2A	PQKLC-QRPSGTWS-GVCGNNNAACRNQCINLEKARHGS-CNYVFPAPAHKICFYFPC- PTH-ST1
<i>Solanum tuberosum</i>	PTH-ST1	-RNC-ESLSHRFK-GPCTRDNSC----- PQKLC-ERPSGTWS-GVCGNNNAACKNQCTINLEKARHGS-CNYVFPAPAHKICFYFPC- Rs-AFP1
<i>Raphanus sativus</i>	Rs-AFP1	PQKLC-QRPSGTWS-GVCGNNNAACKNQCTINLEKARHGS-CNYVFPAPAHKICFYFPC- Rs-AFP2
<i>Raphanus sativus</i>	Rs-AFP2	PQKLC-ERPSGTWS-GVCGNNNAACKNQCTINLEKARHGS-CNYVFPAPAHKICFYFPC- M1
<i>Sinapis alba</i>	M1	PQKLC-ERPSGTWS-GVCGNNNAACKNQCTINLEKARHGS-CNYVFPAPAHKICFYFPC- M2B
<i>Sinapis alba</i>	M2B	PQKLC-AREPSGTWSSGNCRANNACRNFCIRLEKSRHGS-CNIPFPSNKC1CYFPC- Triticum turgidum
<i>Triticum turgidum</i>	Y1-P	-K1C-RRRSAGFK-GPCMSNKNAQVQCQE-G-WGGGNCDG--PERRCKC1RQC- Triticum turgidum
<i>Triticum turgidum</i>	Y2-P	-KVC-RQRSAGFK-GPCVSDKNAQVCLQE-G-WGGGNCDG--PERRCKC1RQC- 10kDa
<i>Vigna unguiculata</i>	10kDa	-KTC-ENLVDTYR-GPCFTTGSCDDHKCKNKEHLLSGR-CR---DDVRCKWCTRNC- SIA2
<i>Sorghum bicolor</i>	SIA2	-RVC-MGKSAAGFK-GLCMRDQNAQVCLQE-G-WGGGNCDG--PERRCKC1RQCW- Sorghum bicolor
<i>Sorghum bicolor</i>	SIA3	-RVC-RRRSAGFK-GLCMSDHNCAQVCLQE-G-WGGGNCDG--VIRQCKC1RQCW- Dalia merckii
<i>Dalia merckii</i>	Dm-AMP2	-EVC-BRASKTWS-GNCGNNTGHC----- Sorghum bicolor
<i>Sorghum bicolor</i>	SIA1	-RVC-MKGSOQHHS-FPCISDRLCSNECVKEEGGWTAGYCH---LRYCRQKAC- Pisum sativum
<i>Pisum sativum</i>	P1230	-NTC-ENLAGSYK-GVCF--GGCDRHCRTQEGAISGR-CR---DDFRCWCTQNC- Aesculus hippocastanum
<i>Aesculus hippocastanum</i>	Ab-AMP1	LCNERPSPQTWS-GNCGNTAHCDKQCDWEAKASHGA-CHKRENHWKCFCYFNC- Heuchera sanguinea
<i>Heuchera sanguinea</i>	HS-AFP1	-KLC-DVPSGTWS-GHGCGSSSKCSQQCQXDRHFAYGGACHYQFPSPVKCPCKRQC- Dalia merckii
<i>Dalia merckii</i>	Dm-AMP1	-ELC-EKASKTWS-GNCGNNTGHCNDQCKSWEGAHAHGA-CHVRNGKHMCFCYFNC- Pisum sativum
<i>Pisum sativum</i>	P139	-NTC-EHLLADTYR-GVCFTNASCDDHCKNKAHLISGT-CH---DWKCFCTQNC- Clitoria ternatea
<i>Clitoria ternatea</i>	Ct-AMP1	-NLG-ERASLTWT-GNCGNNTGHCDTQCRNWEASKHGA-CHKRGN-WKCFCYFNC- (<400>8)
		(<400>25)
		(<400>26)
		(<400>27)
		(<400>28)
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**Figure 10**

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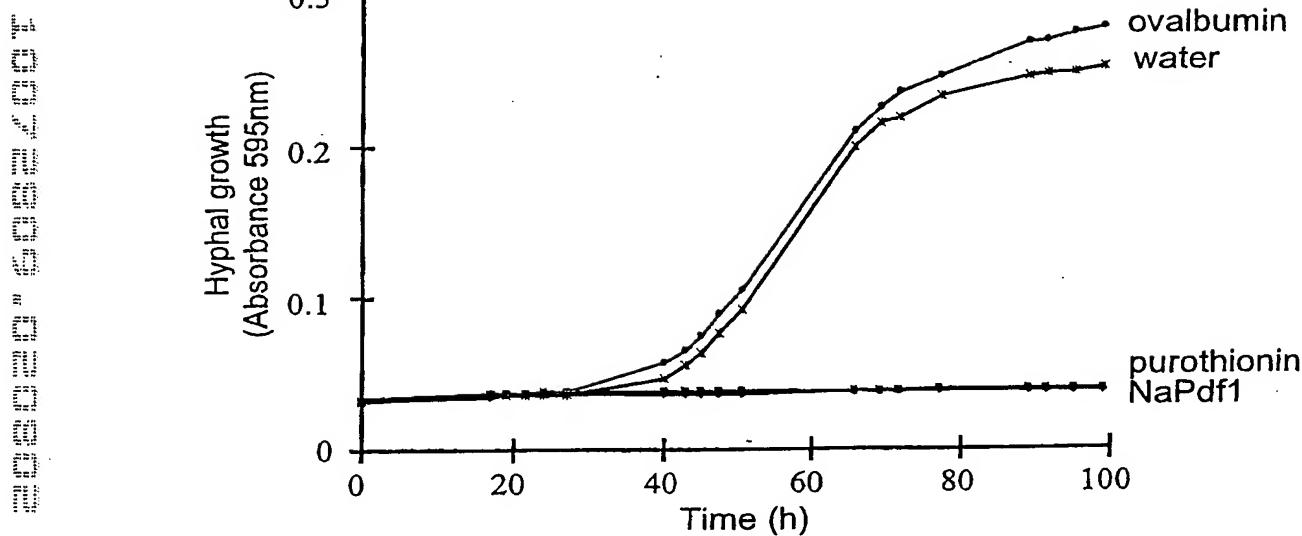


Figure 11

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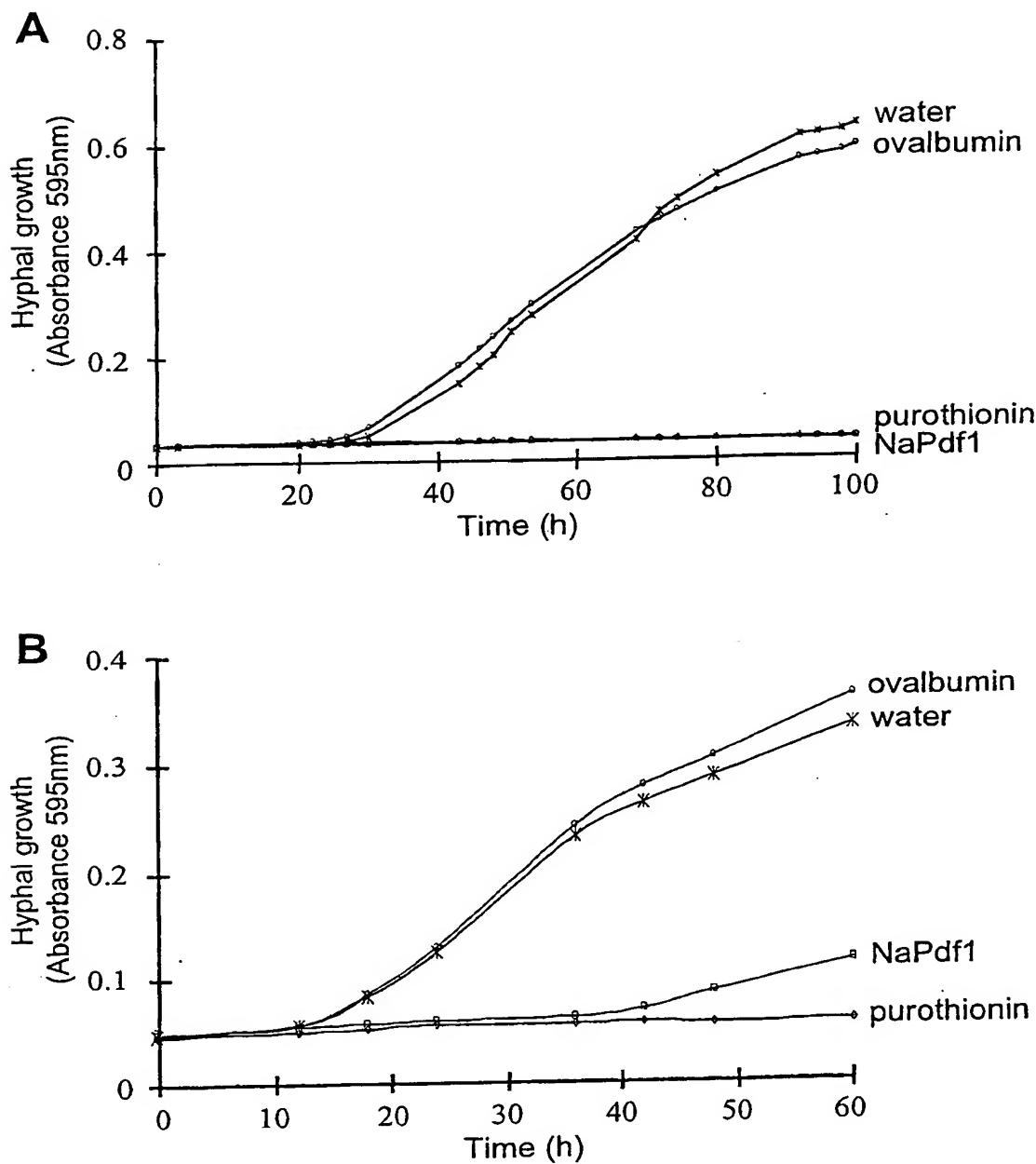


Figure 12

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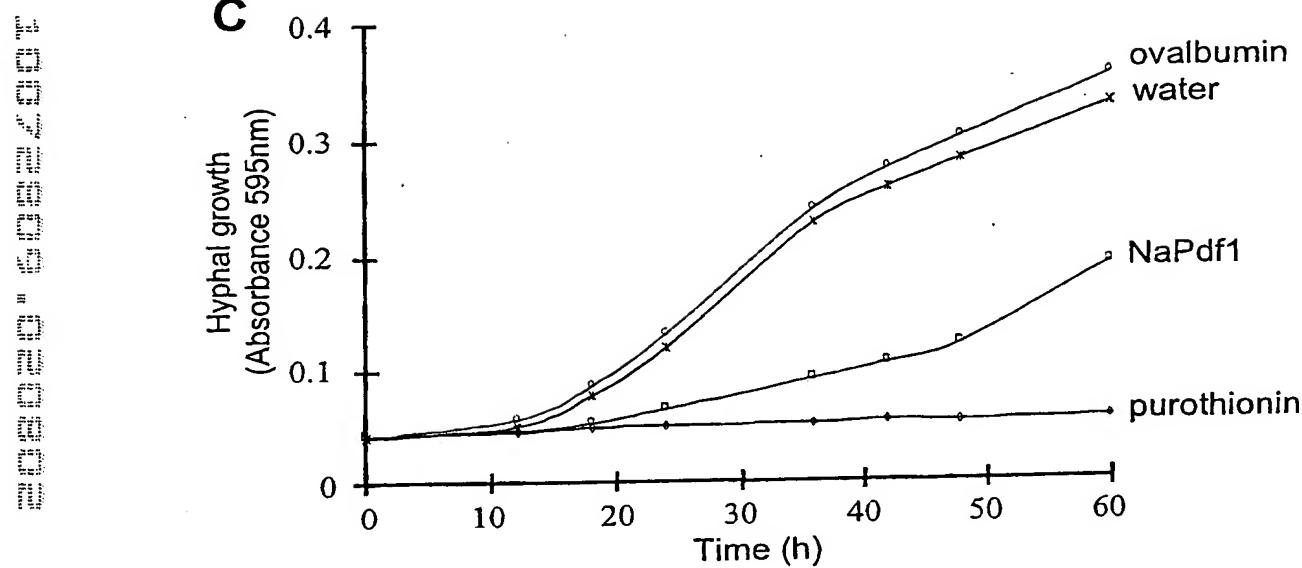


Figure 12 continued

Plant-derived Molecules and Genetic  
Sequences Encoding Same and U  
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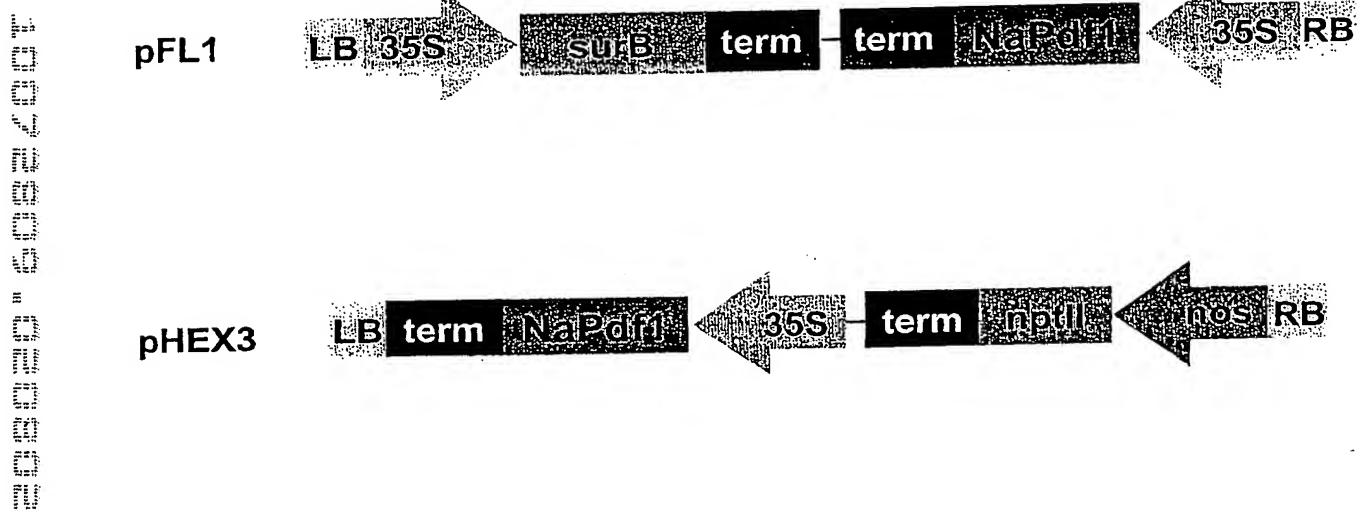


Figure 13

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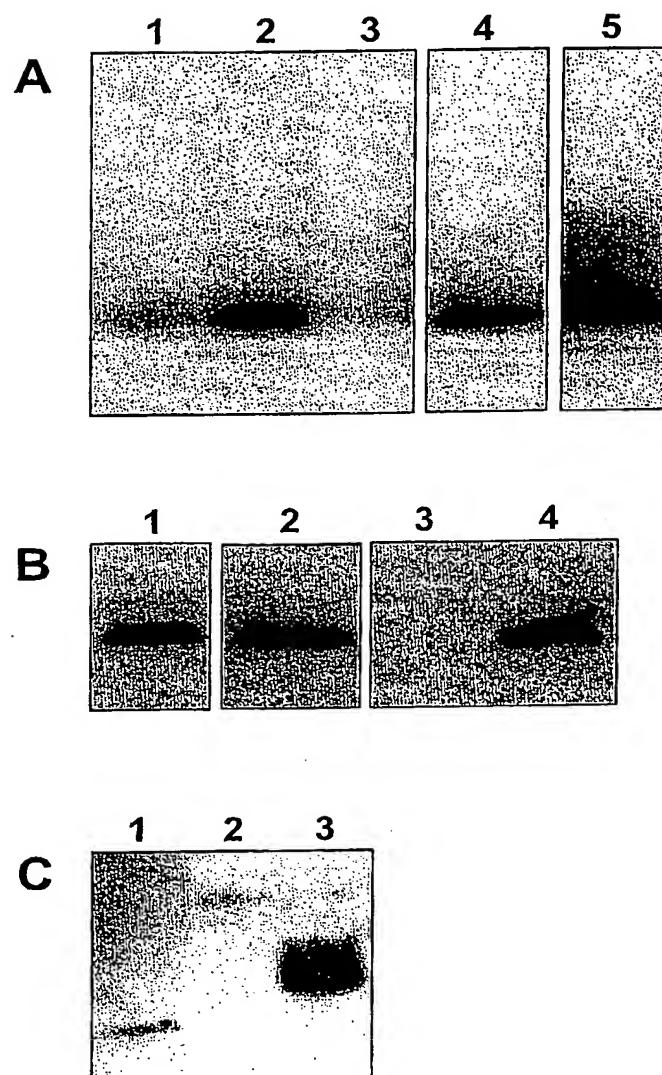


Figure 14

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*H. punctigera* bioassay with transgenic tobacco

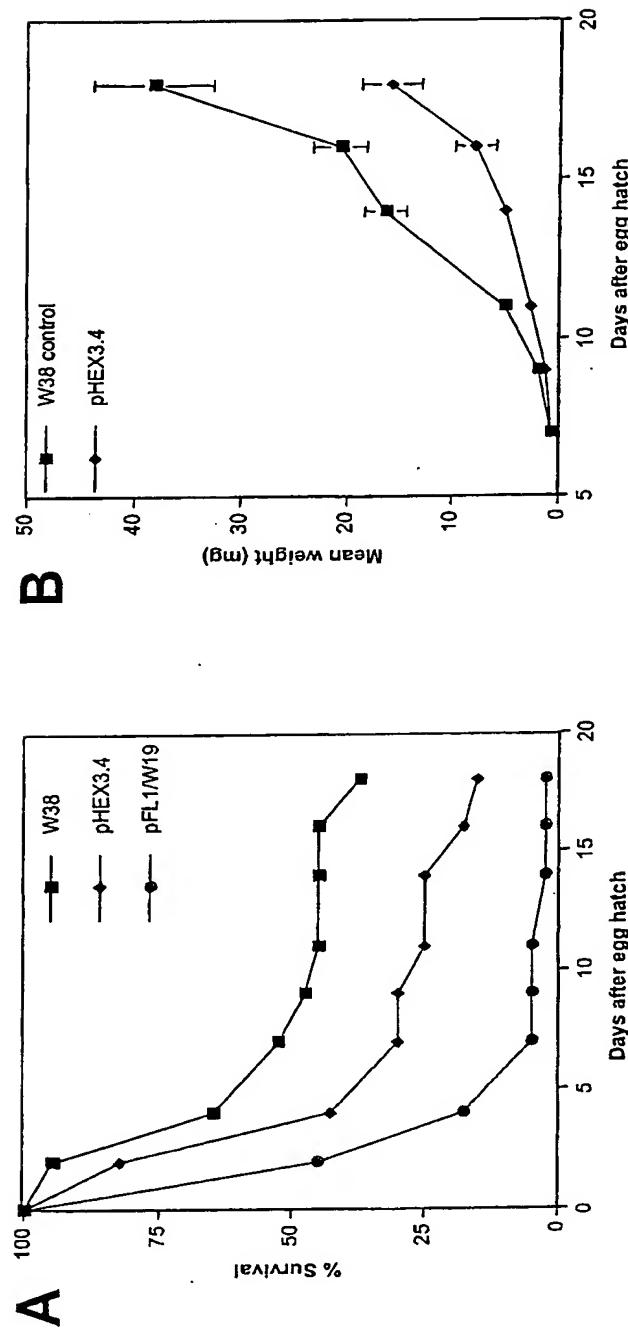


Figure 15

Plant-derived Molecules and Genetic  
Sequences Encoding Same and Us  
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*H. armigera* bioassay with transgenic tobacco

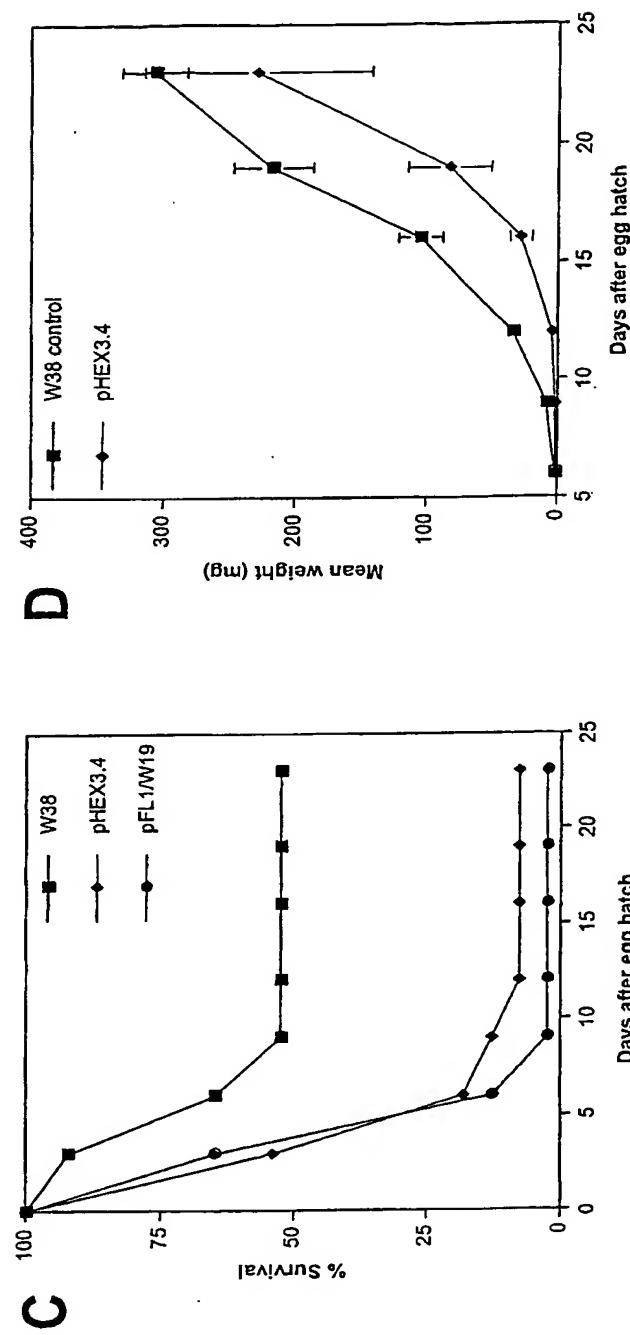


Figure 15 continued

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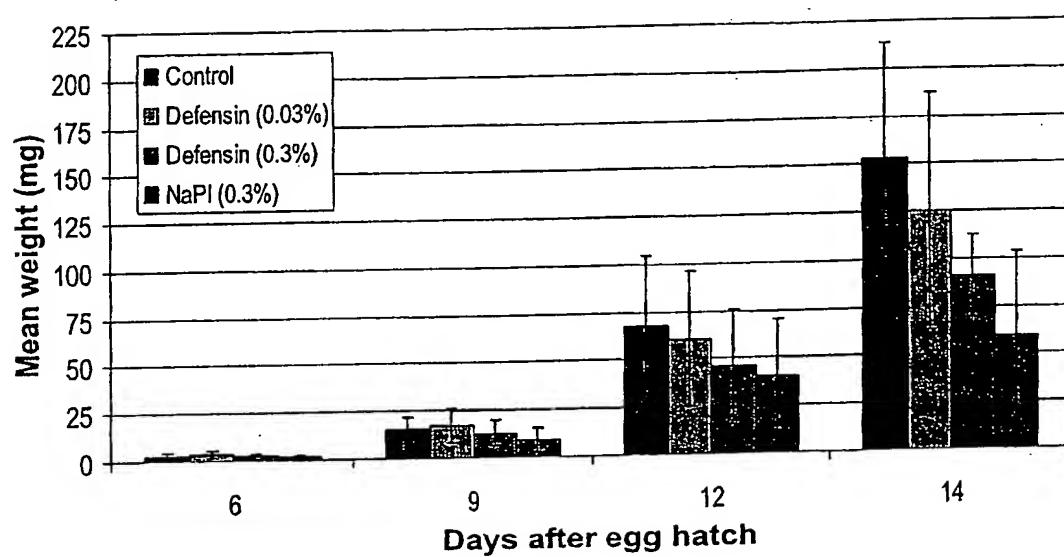


Figure 16

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20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20

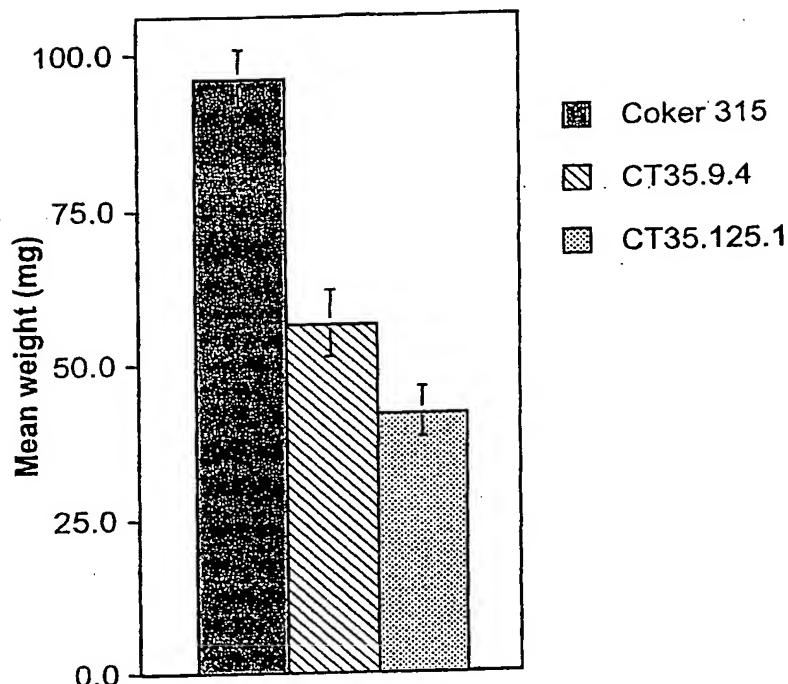


Figure 17